

■ Features:

3.0mm Round Type LED Lamps.
Ultra brightness.
Choice of various viewing angles.
Diffused, Transparent and Water clear lens are available.
IC compatible /Low current capability.

■ Electrical-optical characteristics: (Ta=25℃) (Test Condition: IF=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2¦È1/2(deg)
	Emitted Color	Material	?P (nm)		Typ	Max	Min.	Typ.	
FYL-3014SRC	Hi Red	AlGaAs,SH	660	Water Clear	1.85	2.20	50	220	30
FYL-3014LRC	Super Red	AlGaAs,DH	660		1.85	2.20	200	500	
FYL-3014URC	Ultra Red	AlGaAs,DDH	660		1.95	2.20	500	900	
FYL-3014UEC	Ultra Orange	AlGaInP	630		2.10	2.50	900	1800	
FYL-3014UYC	Ultra Yellow	AlGaInP	590		2.10	2.50	900	2000	
FYL-3014UGC	Ultra Green	AlGaInP	574		2.20	2.50	220	600	
FYL-3014PGC	Ultra Pure Green	InGaN	525		3.80	4.50	1200	3000	
FYL-3014BGC	Ultra Bluish Green	InGaN	505		3.80	4.50	900	2800	
FYL-3014BC	Blue	InGaN	430		3.80	4.50	400	900	
FYL-3014UBC	Ultra Blue	InGaN	470		2.70	4.20	500	1400	
FYL-3014VC	UV	InGaN	405		3.80	4.50	100	150	
FYL-3014UWC	Ultra White	InGaN	/		2.70	4.20	900	2000	

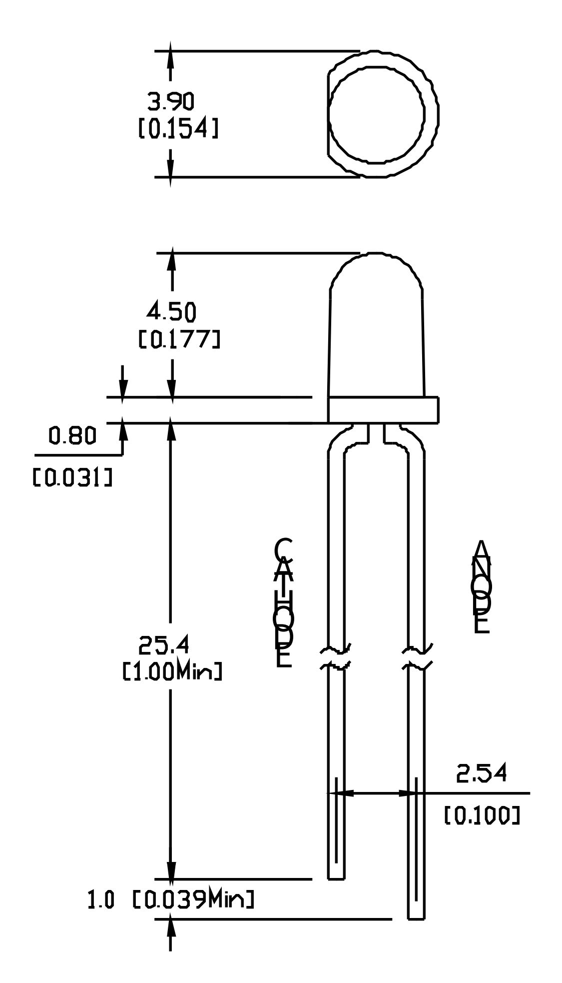
■ Absolute maximum ratings (Ta=25℃)

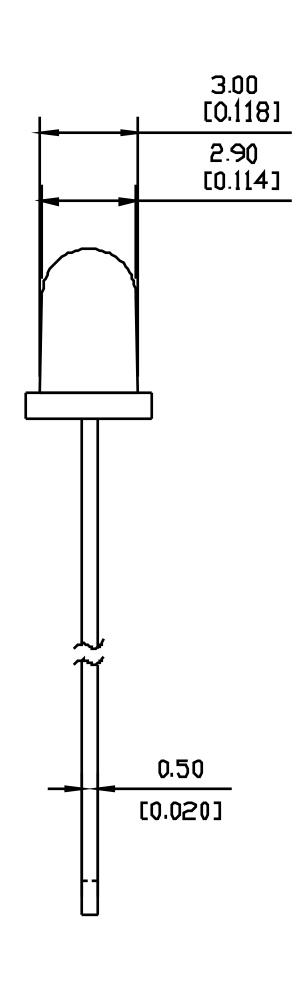
Parameter	SR	LR	UR	UE	UY	UG	PG	BG	B	UB	UV	W	Unit
Forward Current I_F	25	25	25	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P_d	60	60	60	65	65	75	110	110	120	120	120	120	mW
Reverse Voltage V_R	5	5	5	5	5	5	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	150	100	100	100	100	100	mA
Operation Temperature T_{OPR}	-40 to +80												℃
Storage Temperature T_{STG}	-40 to +85												℃
Lead Soldering Temperature T_{SOL}	Max.260 5℃ for 3 sec Max. (1.6mm from the base of the epoxy bulb)												℃

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■ Package configuration & Internal circuit diagram:



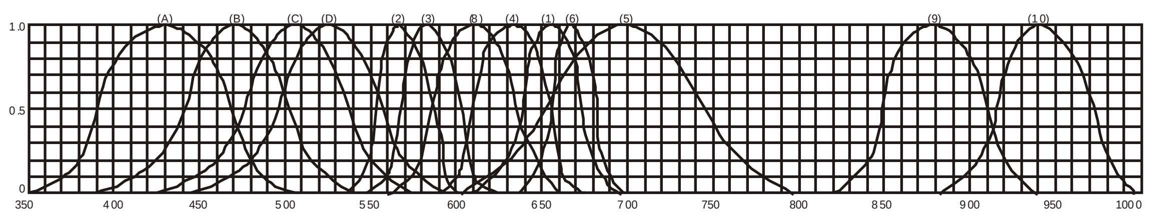


Notes:
All dimensions are in millimeters (inches)
Tolerance is 0.25(0.01")unless otherwise noted.
Specifications are subject to change without notice.

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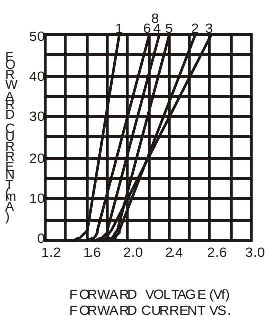
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Typical electrical-optical characteristics curves:

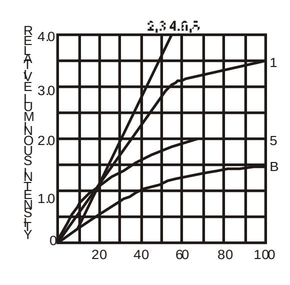


(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red

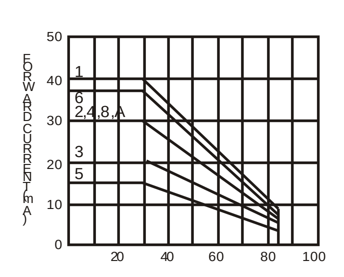
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue
(B) - InGaN/SiC 470nm/Blue
(C) - InGaN/SiC 505nm/Ultra Green
(D) - InGaAl/SiC 525nm/Ultra Green



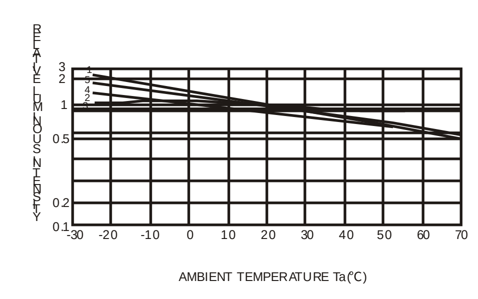
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS. FORWARD VOLTAGE



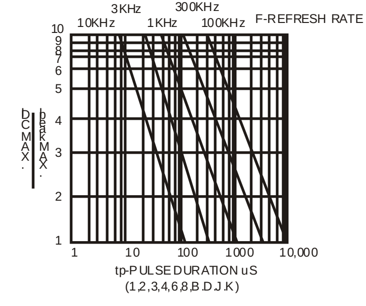
FORWARD CURRENT (mA)
RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



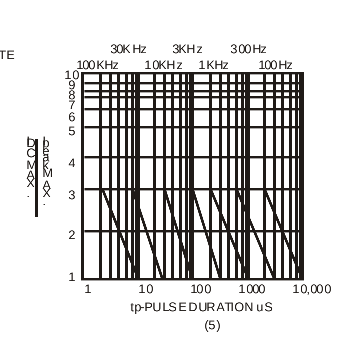
AMBIENT TEMPERATURE Ta(°C)
FORWARD CURRENT VS. AMBIENT TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



tp-PULSE DURATION uS
(1,2,3,4,6,8,B,D,J,K)



tp-PULSE DURATION uS
(5)

NOTE: 25°C free air temperature unless otherwise specified

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